BIOLOGICAL RESOURCES ASSESSMENT AND JURISDICTIONAL DELINEATION FOR THE WAREHOUSE DEVELOPMENT AT 77 & 27195 ALMOND AVE. REDLANDS, CALIFORNIA

Prepared for:

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Contents

SECTION 1.0 – INTRODUCTION	3
1.1 PROJECT LOCATION	3
1.2 PROJECT DESCRIPTION	3
2.0 – METHODOLOGY	3
2.1 LITERATURE REVIEW	3
2.2 SOILS	4
2.3 BIOLOGICAL RECONNAISSANCE-LEVEL SURVEY	4
2.4 JURISDICTIONAL FEATURES	4
2.5 VEGETATION	4
2.6 WILDLIFE	4
SECTION 3.0 – RESULTS	5
3.1 LITERATURE REVIEW RESULTS	5
3.1.1 SOILS	5
3.1.2 WILDLIFE CORRIDORS AND HABITAT CONSERVATION PLAN	5
3.1.3 SPECIAL STATUS SPECIES BACKGROUND	5
3.1.4 DESIGNATED CRITICAL HABITAT	7
3.1.5 JURISDICTIONAL WATERS	7
3.1.6 HYDROLOGY AND HYDROLOGIC CONNECTIVITY	7
3.2 FIELD STUDY RESULTS	7
3.2.1 HABITAT	7
3.2.2 WILDLIFE	8
3.2.3 SPECIAL STATUS SPECIES	8
3.2.4 NESTING BIRDS	8
3.2.6 JURISDICTIONAL WATERS	9
Section 4.0 – CONCLUSIONS AND RECOMMENDATIONS	9
Section 5.0 – REFERENCES	11
Appendix A – Figures	13
Appendix B – Photos	17
Appendix C – Regulatory Framework	20
Appendix D – Tables	28

SECTION 1.0 – INTRODUCTION

Jennings Environmental, LLC (Jennings) was retained by Lilburn Corporation (Lilburn) to conduct a literature review and reconnaissance-level survey for the proposed Warehouse Development Project at 77 & 27195 Almond Ave. in unincorporated Redlands, San Bernardino County, California (Project). The survey identified vegetation communities, the potential for the occurrence of special status species, or habitats that could support special status wildlife species, and recorded all plants and animals observed or detected within the Project boundary. This biological resources assessment is designed to address potential effects of the proposed project to designated critical habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) or the California Endangered Species Act (CESA), or species designated as sensitive by the California Department of Fish and Wildlife (CDFW) or the California Native Plant Society (CNPS). Information contained in this document is in accordance with accepted scientific and technical standards that are consistent with the requirements of the United States Fish and Wildlife Service (USFWS) and (CDFW). Additionally, the site was surveyed for any drainage features that would meet the definition of the Waters of the US (WOUS), Waters of the State (WOS), or CDFW jurisdiction.

1.1 PROJECT LOCATION

The project is generally located in the southern portion of Section 20, Township 1 South, Range 3 West, and is depicted on the *Redlands* U.S. Geological Survey's (USGS) 7.5-minute topographic map. More specifically the project consists of Assessor Parcel Numbers (APNs) 0292-055-03 and 04 within an unincorporated area of Redlands, San Bernardino County, California. The Project site is located 0.12 mile west of the intersection of Almond Avenue and Alabama Street. The site is surrounded by commercial facilities to the east and, south; industrial facilities to the north and west; and a residential apartment building to the southwest. (Figures 1 and 2 in Appendix A).

1.2 PROJECT DESCRIPTION

The Proposed Project includes approximately 59.3% lot coverage, approximately 10.3% landscaping, and a maximum Floor Area Ratio of 0.5:1. The facility would include 154 standard car spaces and 6 handicapaccessible spaces. Parking on the east side of the building would be for truck drivers, warehouse employees, and office staff. Parking for tractors or trailers would be provided on the west side of the building within the secured truck yard. A stormwater capture and infiltration system would be constructed in the western portion of the Project Site.

2.0 - METHODOLOGY

2.1 LITERATURE REVIEW

Prior to performing the field survey, existing documentation relevant to the Project site was reviewed. The most recent records of the California Natural Diversity Database (CNDDB) managed by CDFW (CDFW 2022), the USFWS Critical Habitat Mapper (USFWS 2022), and the California Native Plant Society's Electronic Inventory (CNPSEI 2022) of Rare and Endangered Vascular Plants of California (CNPS 2022) were reviewed for the following quadrangles containing and surrounding the Project site: *Redlands*, USGS 7.5-minute quadrangle. These databases contain records of reported occurrences of federal- or state-listed

endangered or threatened species, California Species of Concern (SSC), or otherwise special status species or habitats that may occur within or in the immediate vicinity of the Project site.

2.2 SOILS

Before conducting the surveys, soil maps for San Bernardino County were referenced online to determine the types of soil found within the Project site. Soils were determined in accordance with categories set forth by the United States Department of Agriculture (USDA) Soil Conservation Service and by referencing the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2022).

2.3 BIOLOGICAL RECONNAISSANCE-LEVEL SURVEY

Jennings biologist, Gene Jennings, conducted the general reconnaissance survey within the Project site to identify the potential for the occurrence of special status species, vegetation communities, or habitats that could support special status wildlife species. The surveys were conducted on foot, throughout the Project site between 0830 and 0930 hours on July 28, 2022. Weather conditions during the survey included temperatures ranging from 77.5 to 81 degrees Fahrenheit, with high clouds, no precipitation, and 0.0 to 1.2 mile per hour winds. Photographs of the Project site were taken to document existing conditions (Appendix B).

2.4 JURISDICTIONAL FEATURES

A general assessment of jurisdictional waters regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW was conducted for the proposed Project area. Pursuant to Section 404 of the Clean Water Act, USACE regulates the discharge of dredged and/or fill material into waters of the United States. The State of California (State) regulates the discharge of material into waters of the State pursuant to Section 401 of the Clean Water Act and the California Porter- Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife. The assessment was conducted by a desktop survey through the USGS National Hydrography Dataset for hydrological connectivity. Additional discussion of the regulatory framework is provided in Appendix C.

2.5 VEGETATION

All plant species observed within the Project site were recorded. Vegetation communities within the Project site were identified, qualitatively described, and mapped onto a high-resolution imagery aerial photograph. Plant communities were determined in accordance with the *Manual of California Vegetation*, *Second Edition* (Sawyer et al. 2009). Plant nomenclature follows that of *The Jepson Manual, Second Edition* (Baldwin et al. 2012). A comprehensive list of the plant species observed during the survey is provided in Appendix D.

2.6 WILDLIFE

All wildlife and wildlife signs observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most

likely to be utilized by wildlife (native vegetation, wildlife trails, etc.) or in habitats with the potential to support state- and/or federally listed or otherwise special status species. Notes were made on the general habitat types, species observed, and the conditions of the Project site. A comprehensive list of the wildlife species observed during the survey is provided in Appendix D.

SECTION 3.0 – RESULTS

3.1 LITERATURE REVIEW RESULTS

According to the CNDDB, CNPSEI, and other relevant literature and databases, 51 sensitive species, 13 of which are listed as threatened or endangered, and 3 sensitive habitats, have been documented in the *Redlands* quad. This list of sensitive species and habitats includes any State and/or federally listed threatened or endangered species, CDFW designated Species of Special Concern (SSC) and otherwise Special Animals. "Special Animals" is a general term that refers to all of the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

An analysis of the likelihood for the occurrence of all CNDDB-sensitive species documented in the *Redlands* quad is provided in Table 2, in Appendix D. This analysis takes into account species range as well as documentation within the vicinity of the project area and includes the habitat requirements for each species and the potential for their occurrence on the site, based on required habitat elements and range relative to the current site conditions. According to the databases, no sensitive habitats, including USFWS designated critical habitat, occurs within or adjacent to the project site.

3.1.1 SOILS

After a review of the USDA Soil Conservation Service and by referencing the USDA NRCS Web Soil Survey (USDA 2020), it was determined that the Project site is located within the San Bernardino County Southwestern Part, California area CA677. Based on the results of the database search, one (1) soil type was observed in the area:

<u>Hanford sandy loam, 0 to 2 percent slopes (HbA).</u> This soil is well drained with a high capacity to transmit water. This soil consists of alluvium derived from granite, typically ranges in elevation from 790 to 1,610 feet above mean sea level (amsl), and is considered prime farmland if irrigated.

3.1.2 WILDLIFE CORRIDORS AND HABITAT CONSERVATION PLAN

According to the California Essential Habitat Connectivity Project, the Project site is not mapped within a permeable area for wildlife movement. Additionally, the Project site is not within an adopted habitat conservation plan.

3.1.3 SPECIAL STATUS SPECIES BACKGROUND

Of the 51 species found within the *San Bernardino South* and *Fontana* quads, 13 have a special designation of either: federally listed or state listed. Some species are also given the special designation of species of special concern (SSC) under the California Fish and Game Code. The discussion below provides the background information on those species that have the potential to occur within the Project site.

Burrowing Owl (Species of Special Concern (SSC)

The burrowing owl (BUOW) is a state and federal SSC. This owl is a mottled, brownish and sand-colored, dove-sized raptor, with large, yellow eyes, a rounded head lacking ear tufts, white eyebrows, and long legs compared to other owl species. It is a ground-dwelling owl typically found in arid prairies, fields, and open areas where vegetation is sparse and low to the ground. The BUOW is heavily dependent upon the presence of mammal burrows, with ground squirrel burrows being a common choice, in its habitat to provide shelter from predators, inclement weather, and to provide a nesting place (Coulombe 1971). They are also known to make use of human-created structures, such as cement culverts and pipes, for burrows.

BUOW spends a great deal of time standing on dirt mounds at the entrance to a burrow or perched on a fence post or other low to the ground perch from which they hunt for prey. BUOW frequently hunt by hovering in place above the ground and dropping on their prey from above. They feed primarily on insects such as grasshoppers, June beetles, and moths, but will also take small rodents, birds, and reptiles. They are active during the day and night but are considered a crepuscular owl; generally observed in the early morning hours or at twilight. The breeding season for BUOW is February 1 through August 31. Up to 11, but typically 7 to 9, eggs are laid in a burrow, abandoned pipe, or other subterranean hollows where incubation is complete in 28-30 days. Young BUOW fledges in 44 days. The BUOW is considered a migratory species in portions of its range, which includes western North America from Canada to Mexico, and east to Texas and Louisiana. BUOW populations in California are considered to be sedentary or locally migratory.

Throughout its range, the BUOW is vulnerable to habitat loss, predation, vehicular collisions, and destruction of burrow sites and the poisoning of ground squirrels (Grinnell and Miller 1944, Zarn 1974, Remsen 1978). BUOW has disappeared from significant portions of their range in the last 15 years and, overall, nearly 60% of the breeding groups of owls known to have existed in California during the 1980s had disappeared by the early 1990s (Burrowing Owl Consortium 1993). The BUOW is not listed under the state or federal Endangered Species Act but is considered both a federal and state Species of Special Concern. The BUOW is a migratory bird protected by the international treaty under the Migratory Bird Treaty Act of 1918 and by State law under the California Fish and Game Code (CDFG Code #3513 & #3503.5).

Additional Species

Of the 13 species with the designation of either: federally listed or state listed, 13 of those species are not expected to occur within the Project site. The Project site is either outside the known range for the species or suitable habitat does not occur within the Project area. Therefore, no further discussion or recommendations are required for the following species:

- Marsh sandwort
- Nevin's barberry
- Salt marsh bird's-beak
- San Bernardino kangaroo rat
- Slender-horned spineflower
- Southwestern willow flycatcher
- Santa ana river woollystar
- Least Bell's vireo

- Steelehead
- Southern mountain yellow-legged frog
- Western yellow-billed cuckoo
- Stephen's kangroo rat
- Coastal California gnatcatcher

3.1.4 DESIGNATED CRITICAL HABITAT

The site is not located within or adjacent to any USFWS designated Critical Habitat. No further action is required.

3.1.5 JURISDICTIONAL WATERS

Aerial imagery of the site was examined and compared with the surrounding USGS 7.5-minute topographic quadrangle maps to identify drainage features within the survey area as indicated from topographic changes, blue-line features, or visible drainage patterns. The U.S. Fish and Wildlife Service National Wetland Inventory and Environmental Protection Agency (EPA) Water Program "My Waters" data layers were also reviewed to determine whether any hydrologic features and wetland areas had been documented within the vicinity of the site. Similarly, the Soil maps from the U.S. Department of Agriculture (USDA) - Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2018) were reviewed to identify the soil series on-site and to check if they have been identified regionally as hydric soils. Upstream and downstream connectivity of waterways (if present) was reviewed in the field, on aerial imagery, and topographic maps to determine jurisdictional status. No obvious signs of jurisdictional features were observed during the literature review.

3.1.6 HYDROLOGY AND HYDROLOGIC CONNECTIVITY

Hydrologically, the project site is located within the Bunker Hill Hydrologic Sub-Area (HSA 801.52), as identified on the Calwater Watershed maps. This Bunker Hill HSA area comprises a 124,791-acre drainage area within the larger Upper Santa Ana River Watershed Area (Hydrologic Unit Code [HUC10] 1807020305, US Watershed Maps) (CalTrans, 2022). The Upper Santa Ana River watershed in the Redlands area is bordered to the north by the Lytle Creek, West Fork Mojave River, Deep Creek, and Bear Creek watersheds, to the east by the Headwaters Santa Ana River and Headwaters Whitewater River watersheds, to the south by the San Gorgonio River and San Timoteo Wash watersheds, and to the west by Middle Santa Ana River watershed. (Figure 3 in Appendix A).

3.2 FIELD STUDY RESULTS

3.2.1 HABITAT

The habitat on-site consists of an active orange grove (*Citrus sinensis*) and bare ground with patchy ruderal vegetation. The site also contains a residential development with ornamental landscaping. Table 1 in Appendix D contains a list of all plants found on-site. The site has been subject to historic human disturbances such as weed abatement and agricultural uses. Surrounding land uses include residential developments and commercial developments.

3.2.2 WILDLIFE

Several birds were seen during the surveys. Species observed or otherwise detected on or in the vicinity of the project site during the surveys included house finch (*Haemorhous mexicanus*) and northern mockingbird (*Mimus polyglottos*). A complete list of all species observed is included in Table 1 in Appendix D.

The project site is located within a developed area in an unincorporated area of San Bernardino referred to as the "Donut Hole" that includes commercial shopping centers, distribution warehouses, and apartment complexes.

3.2.3 SPECIAL STATUS SPECIES

No State and/or federally listed threatened or endangered species or other sensitive species were observed on-site during surveys.

Burrowing owl (SSC)

The Project site does not contain suitable habitat for this species. The site is an active orange grove with no signs of burrow surrogate species, California ground squirrels (*Otospermophilus beecheyi*). The assessment survey was structured, in part, to detect BUOW, which has been observed in the near vicinity of the project site (within 2 miles). The survey consisted of walking transects spaced to provide 100% visual coverage of the project site. The result of the survey was that no evidence of BUOW was found in the survey area. No burrows of appropriate size, aspect, or shape were located and no BUOW pellets, feathers, or whitewash were found. No burrowing owl individuals were observed.

<u>Findings:</u> The Project site does not contain suitable habitat for this species. Therefore, there is no impact on this species as a result of the Project. Nothing further is required.

3.2.4 NESTING BIRDS

The Project site and immediate surrounding area do contain habitat suitable for nesting birds. The area does have mature trees and various non-natural refugia in which birds can nest. As such the Project is subject to the following nesting bird regulations. Recommendations for avoidance and minimization are in section 4.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act of 1918. This Act implements four international conservation treaties that the U.S. entered into with Canada in 1916, Mexico in 1936, Japan in 1972, and Russia in 1976. It is intended to ensure the sustainability of populations of all protected migratory bird species. The Act has been amended with the signing of each treaty, as well as when any of the treaties were amended, such as with Mexico in 1976 and Canada in 1995. The Act prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service.

California Fish and Game Code

The Project site is also subject to Sections 3503 and 3503.5 of the Fish and Game Code. Section 3503 states, "It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto". And Section 3503.5 states, "It is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto".

3.2.6 JURISDICTIONAL WATERS

Waters of the United States and Waters of the State

The USACE has the authority to permit the discharge of dredged or fill material in Waters of the U.S. under Section 404 CWA. While the Regional Water Quality Board has authority over the discharge of dredged or fill material in Waters of the State under Section 401 CWA as well as the Porter-Cologne Water Quality Control Act. The Project area was surveyed with 100 percent visual coverage and no drainage features were present on site. As such, the subject parcel does not contain any wetlands, waters of the U.S., or Waters of the State.

Fish and Game Code Section 1602 - State Lake and/or Streambed

The CDFW asserts jurisdiction over any drainage feature that contains a definable bed and bank or associated riparian vegetation. The Project area was surveyed with 100 percent visual coverage and no definable bed or bank features exist on the project site. As such, the subject parcel does not contain any areas under CDFW jurisdiction.

Section 4.0 – CONCLUSIONS AND RECOMMENDATIONS

Based on the literature review and personal observations made on-site and within the immediate vicinity, no State and/or federally listed threatened or endangered species are documented/or expected to occur within the Project site. No other sensitive species were observed within the project area or buffer area.

Jurisdictional Features

There are no streams, channels, washes, or swales that meet the definitions of Section 1600 of the State of California Fish and Game Code (FGC) under the jurisdiction of the CDFW, Section 401 ("Waters of the State") of the Clean Water Act (CWA) under the jurisdiction of the Regional Water Quality Control Board (RWQCB), or "Waters of the United States" (WoUS) as defined by Section 404 of the CWA under the jurisdiction of the U.S. Army Corps of Engineers (Corps) within the subject parcel. Therefore, no permit, certification, or agreement is required from the Corps, RWQCB, and CDFW, respectively.

Nesting Birds

Since there is some habitat within the project site and adjacent area that is suitable for nesting birds in general, the following mitigation measure should be implemented.

Nesting bird nesting season generally extends from February 1 through September 15 in southern California and specifically, March 15 through August 31 for migratory passerine birds. To avoid impacts to nesting birds (common and special status) during the nesting season, a qualified Avian Biologist will conduct pre-construction Nesting Bird Surveys

(NBS) prior to project-related disturbance to nestable vegetation to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage, and expected types, intensity, and duration of the disturbance. The nests and buffer zones shall be field-checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the qualified biologist has determined the young birds have successfully fledged and the nest is inactive.

Please do not hesitate to contact me at 909-534-4547 should you have any questions or require further information.

Sincerely,

Gene Jennings

Principal/Regulatory Specialist

Appendices:

Appendix A - Figures

Appendix B – Site Photos

Appendix C – Regulatory Framework

Appendix D - Tables

Section 5.0 – REFERENCES

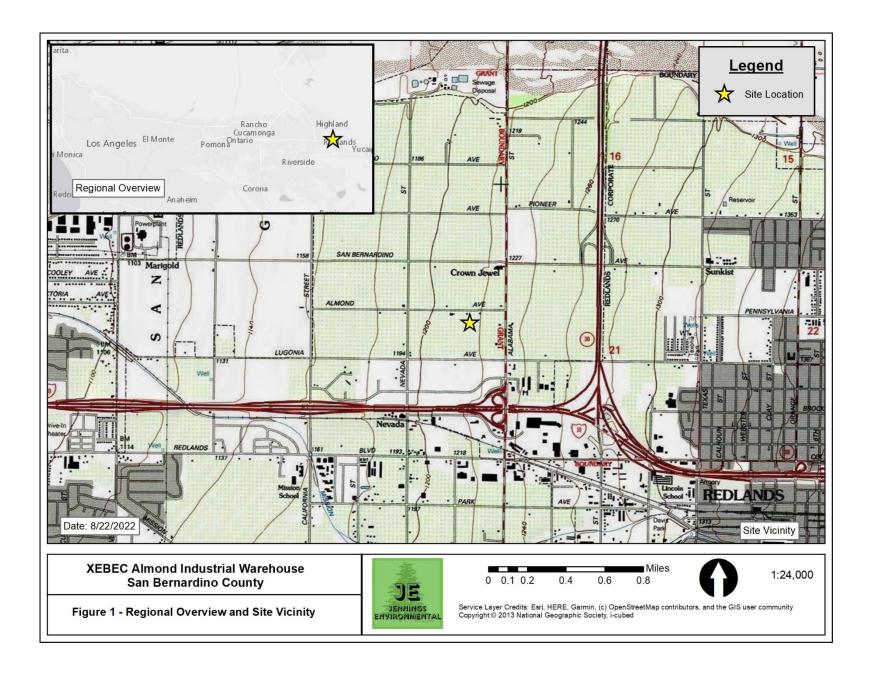
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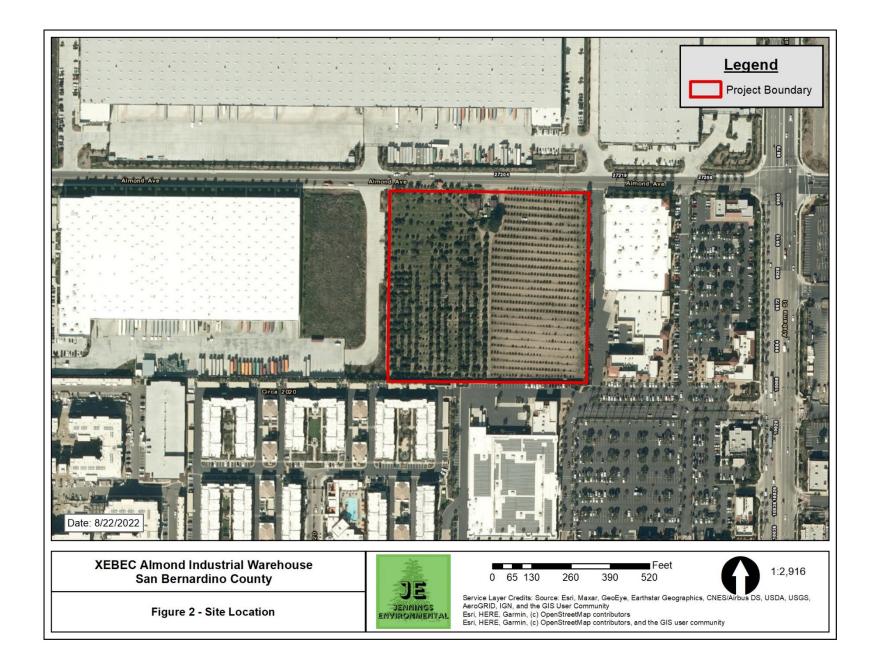
California Department of Fish and Wildlife (CDFW)

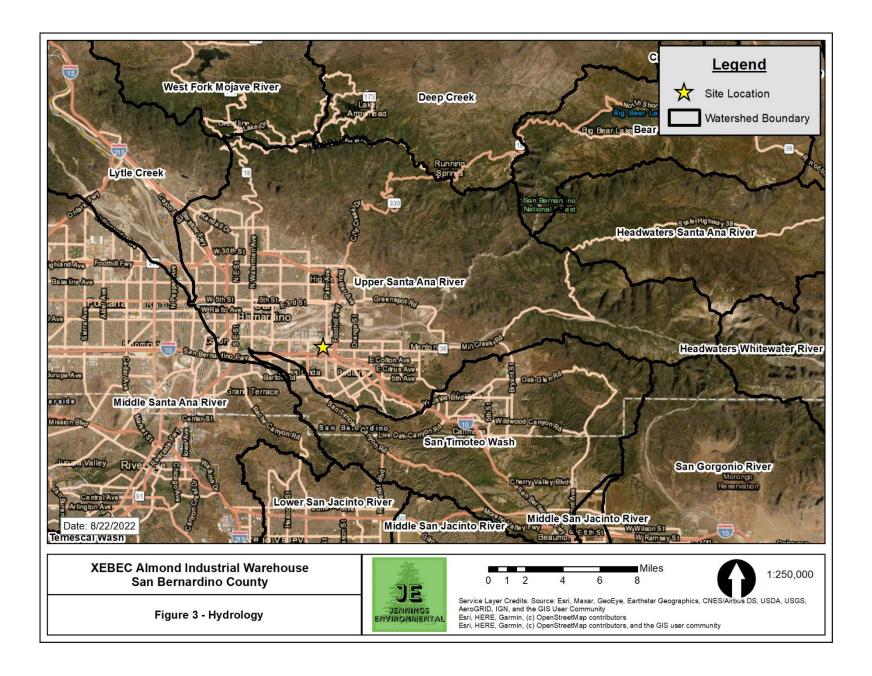
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Appendix A – Figures







Appendix B – Photos



Photo 1 –
Northeast corner
of Project site,
facing southwest.
Showing ruderal
vegetation, citrus
trees, and bare
ground.



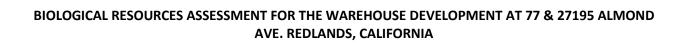
Photo 2 – Southeast corner of Project site, facing northwest. Showing ruderal vegetation, citrus trees, and bare ground.



Photo 3 –
Southwest corner of Project site, facing north.
Showing ruderal vegetation, citrus trees, ornamental landscaping on adjacent parcel, and bare ground.



Photo 4 –
Northwest corner
of Project site,
facing south.
Showing ruderal
vegetation, citrus
trees, ornamental
landscaping on
adjacent parcel,
and bare ground.



Appendix C – Regulatory Framework

1.1 FEDERAL JURISDICTION

1.1.1 United States Army Corps of Engineers

Activities within inland streams, wetlands, and riparian areas in California are regulated by agencies at the federal, state, and regional levels. At the federal level, the U.S. Army Corps of Engineers (USACE) Regulatory Program regulates activities within wetlands and waters of the US pursuant to Section 404 of the Federal Clean Water Act (CWA).

At the state level, the California Department of Fish and Wildlife (CDFW) regulates activities within the bed, bank, and associated habitat of a stream under the Fish and Game Code §§ 1600–1616. The California State Water Resources Board (SWRB) delegates authority at the regional level to Regional Water Quality Control Boards (RWQCB) that are responsible for regulating discharge into waters of the US under Section 401 of the federal CWA and waters of the State under the California Porter-Cologne Water Quality Act.

The CWA was implemented to maintain and restore the chemical, physical, and biological integrity of the Waters of the United States (33 Code of Federal Regulations [CFR] Part 328 Section 328.3). "Waters of the US" are defined as follows:

- (a) Jurisdictional waters. For purposes of the Clean Water Act, 33 U.S.C. 1251 et seq. and its implementing regulations, subject to the exclusions in paragraph (b) of this section, the term "waters of the United States" means:
 - (1) The territorial seas, and waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters which are subject to the ebb and flow of the tide;
 - (2) Tributaries;
 - (3) Lakes and ponds, and impoundments of jurisdictional waters; and
 - (4) Adjacent wetlands.
- (b) Non-jurisdictional waters. The following are not "waters of the United States":
 - (1) Waters or water features that are not identified in paragraph (a)(1), (2), (3), or
 - (4) of this section;
 - (2) Groundwater, including groundwater drained through subsurface drainage systems;
 - (3) Ephemeral features, including ephemeral streams, swales, gullies, rills, and pools;
 - (4) Diffuse stormwater run-off and directional sheet flow over upland;
 - (5) Ditches that are not waters identified in paragraph (a)(1) or (2) of this section, and those portions of ditches constructed in waters identified in paragraph (a)(4) of this section that do not satisfy the conditions of paragraph (c)(1) of this section;
 - (6) Prior converted cropland;
 - (7) Artificially irrigated areas, including fields flooded for agricultural production, that would revert to upland should application of irrigation water to that area cease; Artificial lakes and ponds, including water storage reservoirs and farm, irrigation, stock watering, and log cleaning ponds, constructed or excavated in upland or in nonjurisdictional waters, so long as those artificial lakes and ponds

- are not impoundments of jurisdictional waters that meet the conditions of paragraph (c)(6) of this section;
- (8) Water-filled depressions constructed or excavated in upland or in non-jurisdictional waters incidental to mining or construction activity, and pits excavated in upland or in nonjurisdictional waters for the purpose of obtaining fill, sand, or gravel;
- (9) Stormwater control features constructed or excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or store stormwater runoff;
- (10) Groundwater recharge, water reuse, and wastewater recycling structures, including detention, retention, and infiltration basins and ponds, constructed or excavated in upland or in non-jurisdictional waters; and
- (11) Waste treatment systems.
- (c) *Definitions*. In this section, the following definitions apply:
 - (1) Adjacent wetlands. The term adjacent wetlands means wetlands that:
 - (i) Abut, meaning to touch at least at one point or side of, a water identified in paragraph (a)(1), (2), or (3) of this section;
 - (ii) Are inundated by flooding from a water identified in paragraph (a)(1),
 - (2), or (3) of this section in a typical year;
 - (iii) Are physically separated from a water identified in paragraph (a)(1),
 - (2), or (3) of this section only by a natural berm, bank, dune, or similar natural feature; or
 - (iv) Are physically separated from a water identified in paragraph (a)(1), (2), or (3) of this section only by an artificial dike, barrier, or similar artificial structure so long as that structure allows for a direct hydrologic surface connection between the wetlands and the water identified in paragraph (a)(1), (2), or (3) of this section in a typical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature. An adjacent wetland is jurisdictional in its entirety when a road or similar artificial structure divides the wetland, as long as the structure allows for a direct hydrologic surface connection through or over that structure in a typical year.
 - (2) *Ditch*. The term *ditch* means a constructed or excavated channel used to convey water.
 - (3) *Ephemeral*. The term *ephemeral* means surface water flowing or pooling only in direct response to precipitation (e.g., rain or snow fall).
 - (4) High tide line. The term high tide line means the line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of

- water against a coast by strong winds, such as those accompanying a hurricane or other intense storm.
- (5) *Intermittent*. The term *intermittent* means surface water flowing continuously during certain times of the year and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated or when snowpack melts).
- (6) Lakes and ponds, and impoundments of jurisdictional waters. The term lakes and ponds, and impoundments of jurisdictional waters means standing bodies of open water that contribute surface water flow to a water identified in paragraph (a)(1) of this section in a typical year either directly or through one or more waters identified in paragraph (a)(2), (3), or (4) of this section. A lake, pond, or impoundment of a jurisdictional water does not lose its jurisdictional status if it contributes surface water flow to a downstream jurisdictional water in a typical year through a channelized non-jurisdictional surface water feature, through a culvert, dike, spillway, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. A lake or pond, or impoundment of a jurisdictional water Start Printed Page 22339is also jurisdictional if it is inundated by flooding from a water identified in paragraph (a)(1), (2), or (3) of this section in a typical year.
- (7) Ordinary high water mark. The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.
- (8) *Perennial*. The term *perennial* means surface water flowing continuously year-round.
- (9) *Prior converted cropland*. The term prior *converted cropland* means any area that, prior to December 23, 1985, was drained or otherwise manipulated for the purpose, or having the effect, of making production of an agricultural product possible. EPA and the Corps will recognize designations of prior converted cropland made by the Secretary of Agriculture. An area is no longer considered prior converted cropland for purposes of the Clean Water Act when the area is abandoned and has reverted to wetlands, as defined in paragraph (c)(16) of this section. Abandonment occurs when prior converted cropland is not used for, or in support of, agricultural purposes at least once in the immediately preceding five years. For the purposes of the Clean Water Act, the EPA Administrator shall have the final authority to determine whether prior converted cropland has been abandoned.
- (10) *Snowpack*. The term *snowpack* means layers of snow that accumulate over extended periods of time in certain geographic regions or at high elevation (e.g., in northern climes or mountainous regions).
- (11) Tidal waters and waters subject to the ebb and flow of the tide. The terms tidal waters and waters subject to the ebb and flow of the tide mean those

waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters and waters subject to the ebb and flow of the tide end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects.

- (12) Tributary. The term tributary means a river, stream, or similar naturally occurring surface water channel that contributes surface water flow to a water identified in paragraph (a)(1) of this section in a typical year either directly or through one or more waters identified in paragraph (a)(2), (3), or (4) of this section. A tributary must be perennial or intermittent in a typical year. The alteration or relocation of a tributary does not modify its jurisdictional status as long as it continues to satisfy the flow conditions of this definition. A tributary does not lose its jurisdictional status if it contributes surface water flow to a downstream jurisdictional water in a typical year through a channelized non-jurisdictional surface water feature, through a subterranean river, through a culvert, dam, tunnel, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. The term tributary includes a ditch that either relocates a tributary, is constructed in a tributary, or is constructed in an adjacent wetland as long as the ditch satisfies the flow conditions of this definition.
- (13) *Typical year*. The term *typical year* means when precipitation and other climatic variables are within the normal periodic range (e.g., seasonally, annually) for the geographic area of the applicable aquatic resource based on a rolling thirty-year period.
- (14) Upland. The term upland means any land area that under normal circumstances does not satisfy all three wetland factors (i.e., hydrology, hydrophytic vegetation, hydric soils) identified in paragraph (c)(16) of this section, and does not lie below the ordinary high water mark or the high tide line of a jurisdictional water.
- (15) Waste treatment system. The term waste treatment system includes all components, including lagoons and treatment ponds (such as settling or cooling ponds), designed to either convey or retain, concentrate, settle, reduce, or remove pollutants, either actively or passively, from wastewater prior to discharge (or eliminating any such discharge).
- (16) Wetlands. The term wetlands means areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Section 404 (b)(1) compliance must be demonstrated before a Section 404 permit can be issued. Guidelines for a Section 404(b)(1) analysis were developed by the EPA in conjunction with USACE (40 CFR Parts 230). The guidelines allow the discharge of dredged or fill material into the aquatic system only if there is no practicable alternative that would have less adverse impacts.

1.2 STATE JURISDICTION

The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the CWA as well as the California Porter-Cologne Water Quality Control Act (Porter-Cologne; California Water Code, Division 7, §13000 et seq.). Waters of the State are defined by Porter-Cologne as "any surface water or groundwater, including saline waters, within the boundaries of the state" (Water Code Section 13050(e)). Waters of the State broadly includes all waters within the State's boundaries (public or private), including waters in both natural and artificial channels.

1.2.1 Regional Water Quality Control Board

Under Porter-Cologne, the State Water Resources Control Board (SWRCB) and the local Regional Water Quality Control Boards (RWQCB) regulate the discharge of waste into waters of the State. Discharges of waste include "fill, any material resulting from human activity, or any other 'discharge' that may directly or indirectly impact 'waters of the state.'" Porter-Cologne reserves the right for the State to regulate activities that could affect the quantity and/or quality of surface and/or groundwaters, including isolated wetlands, within the State. Wetlands were defined as waters of the State if they demonstrated both wetland hydrology and hydric soils. Waters of the State determined to be jurisdictional for these purposes require, if impacted, waste discharge requirements (WDRs).

When an activity results in fill or discharge directly below the OHWM of jurisdictional waters of the United States (federal jurisdiction), including wetlands, a CWA Section 401 Water Quality Certification is required. If a proposed project is not subject to CWA Section 401 certification but involves activities that may result in a discharge to waters of the State, the project may still be regulated under Porter-Cologne and may be subject to waste discharge requirements. In cases where waters apply to both CWA and Porter-Cologne, RWQCB may consolidate permitting requirements to one permit.

1.2.2 California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, the California Department of Fish and Wildlife (CDFW) regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation" (California Code of Regulations, Title 14, Section 1.72). The jurisdiction of CDFW may include areas in or near intermittent streams, ephemeral streams, rivers, creeks, dry washes, sloughs, blue-line streams that are indicated on USGS maps, watercourses that may contain subsurface flows, or within the flood plain of a water body.

CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." CDFW limits of jurisdiction typically include the maximum extents of the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

In a CDFW guidance of stream processes and forms in dryland watersheds (Vyverberg 2010), streams are identified as having one or more channels that may all be active or receive water only during some high flow event. Subordinate features, such as low flow channels, active channels, banks associated with secondary channels, floodplains, and stream-associated vegetation, may occur within the bounds of a single, larger channel. The water course is defined by the topography or elevations of land that confine a stream to a definite course when its waters rise to their highest level. A watercourse is defined as a stream with boundaries defined by the maximal extent or expression on the landscape even though flow may otherwise be intermittent or ephemeral.

Artificial waterways such as ditches (including roadside ditches), canals, aqueducts, irrigation ditches, and other artificially created water conveyance systems also may be under the jurisdiction of CDFW. CDFW may claim jurisdiction over these features based on the presence of habitat characteristics suitable to support aquatic life, riparian vegetation, and/or stream-dependent terrestrial wildlife. As with natural waterways, the limit of CDFW jurisdiction of artificial waterways includes the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

CDFW does not have jurisdiction over wetlands but has jurisdiction to protect against a net loss of wetlands. CDFW supports the wetland criteria recognized by USFWS; one or more indicators of wetland conditions must exist for wetlands conditions to be considered present. The following is the USFWS accepted definition of a wetland:

Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the lands supports hydrophytes, (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated withwater or covered by shallow water at some time during the growing season of each year (Cowardin et al. 1979).

In A Clarification of the U.S. Fish and Wildlife Service's Wetland Definition (Tiner 1989), the USFWS definition was further clarified "that in order for any area to be classified as wetland by the Service, the area must be periodically saturated or covered by shallow water, whether wetland vegetation and/or hydric soils are present or not; this hydrologic requirement is addressed in the first sentence of the definition." When considering whether an action would result in a net loss of wetlands, CDFW will extend jurisdiction to USFWS-defined wetland conditions where such conditions exist within the riparian vegetation that is associated with a stream or lake and does not depend on whether those features meet the three-parameter USACE methodology of wetland determination. If impacts to wetlands under the jurisdiction of CDFW



Appendix D – Tables

Table 1. Species Observed On-Site

Common Name Scientific Name

<u>Plants</u>	
Puncture vine	Tribulus terrestris
Orange trees	Citrus sinensis
Hairy fleabane	Erigeron bonariensis
Common purslane	Portulaca oleracea
Common tumbleweed	Amaranths albus
Canary island date palm	Phoenix canariensis
Short pod mustard	Hirschfeldia incana
Texas sage	Leucophyllum frutescens
Horse weed	Erigeron canadensis
<u>Birds</u>	
house finch	Haemorhous mexicanus
Northern mockingbird	Mimus polyglottos
Red-shoulder hawk	Buteo lineatus
Western kingbird	Tyrannus verticalis
Anna's hummingbird	Calypte anna
Mourning dove	Zenaida macroura
Reptiles	
Western fence lizard	Sceloporus occidentalis

Table 2 – CNDDB Potential to Occur for the *Redlands* USGS 7.5-minute Quadrangle

		Federal /			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Woodland, chiefly of open,	
				interrupted or marginal type.	
				Nest sites mainly in riparian	Suitable habitat for this species
				growths of deciduous trees, as in	does not occur on site. As
			G5, S4, CDFW-	canyon bottoms on river flood-	such, this species is considered
Accipiter cooperii	Cooper's hawk	None, None	WL	plains; also, live oaks.	absent from the Project site.
				Resident in Southern California	
				coastal sage scrub and sparse	
	southern			mixed chaparral. Frequents	Suitable habitat for this species
	California			relatively steep, often rocky	does not occur on site. As
Aimophila ruficeps	rufous-crowned		G5T3, S3,	hillsides with grass and forb	such, this species is considered
canescens	sparrow	None, None	CDFW-WL	patches.	absent from the Project site.
				Generally south of the	
				Transverse Range, extending to	
				northwestern Baja California.	
				Occurs in sandy or loose loamy	
				soils under sparse vegetation.	
				Disjunct populations in the	
				Tehachapi and Piute Mountains	
				in Kern County. Variety of	Suitable habitat for this species
	Southern			habitats; generally in moist,	does not occur on site. As
	California legless		G3, S3, CDFW-	loose soil. They prefer soils with	such, this species is considered
Anniella stebbinsi	lizard	None, None	SSC	a high moisture content.	absent from the Project site.

		Federal /			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Deserts, grasslands, shrublands,	
				woodlands and forests. Most	
				common in open, dry habitats	
				with rocky areas for roosting.	
				Roosts must protect bats from	Suitable habitat for this species
				high temperatures. Very	does not occur on site. As
			G4, S3, CDFW-	sensitive to disturbance of	such, this species is considered
Antrozous pallidus	pallid bat	None, None	SSC	roosting sites.	absent from the Project site.
				Marshes and swamps. Growing	
				up through dense mats of Typha,	Suitable habitat for this species
				Juncus, Scirpus, etc. in	does not occur on site. As
Arenaria		Endangered,		freshwater marsh. Sandy soil. 3-	such, this species is considered
paludicola	marsh sandwort	Endangered	G1, S1, 1B.1	170 m.	absent from the Project site.
				Patchily distributed from the	
				eastern portion of San Francisco	
				Bay, southern San Joaquin	
				Valley, and the Coast,	
				Transverse, and Peninsular	
				ranges, south to Baja California.	
				Generalist reported from a	Suitable habitat for this species
				range of scrub and grassland	does not occur on site. As
Arizona elegans	California glossy		G5T2, S2,	habitats, often with loose or	such, this species is considered
occidentalis	snake	None, None	CDFW-SSC	sandy soils.	absent from the Project site.
				Inhabits low-elevation coastal	
				scrub, chaparral, and valley-	
				foothill hardwood habitats.	
				Prefers washes and other sandy	Suitable habitat for this species
				areas with patches of brush and	does not occur on site. As
Aspidoscelis	orange-throated		G5, S2S3,	rocks. Perennial plants necessary	such, this species is considered
hyperythra	whiptail	None, None	CDFW-WL	for its major food: termites.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Found in deserts and semi-arid	
				areas with sparse vegetation and	
				open areas. Also found in	Suitable habitat for this species
				woodland and riparian areas.	does not occur on site. As
Aspidoscelis tigris			G5T5, S3,	Ground may be firm soil, sandy,	such, this species is considered
stejnegeri	coastal whiptail	None, None	CDFW-SSC	or rocky.	absent from the Project site.
				Open, dry annual or perennial	
				grasslands, deserts, and	
				scrublands characterized by low-	
				growing vegetation.	
				Subterranean nester, dependent	Suitable habitat for this species
				upon burrowing mammals, most	does not occur on site. As
Athene			G4, S3, CDFW-	notably, the California ground	such, this species is considered
cunicularia	burrowing owl	None, None	SSC	squirrel.	absent from the Project site.
				Chaparral, cismontane	
				woodland, coastal scrub,	Suitable habitat for this species
				riparian scrub. On steep, N-	does not occur on site. As
		Endangered,		facing slopes or in low grade	such, this species is considered
Berberis nevinii	Nevin's barberry	Endangered	G1, S1, 1B.1	sandy washes. 90-1590 m.	absent from the Project site.
				Coastal California east to the	
				Sierra-Cascade crest and south	
				into Mexico. Food plant genera	Suitable habitat for this species
				include Antirrhinum, Phacelia,	does not occur on site. As
	Crotch bumble			Clarkia, Dendromecon,	such, this species is considered
Bombus crotchii	bee	None, None	G2, S1S2	Eschscholzia, and Eriogonum.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Coastal scrub, chaparral, valley	
				and foothill grassland,	
				cismontane woodland, lower	
				montane coniferous forest.	
				Occurs on rocky and sandy sites,	Suitable habitat for this species
				usually of granitic or alluvial	does not occur on site. As
Calochortus	Plummer's			material. Can be very common	such, this species is considered
plummerae	mariposa-lily	None, None	G4, S4, 4.2	after fire. 60-2500 m.	absent from the Project site.
				Valley and foothill grassland,	
				chenopod scrub, meadows and	
				seeps, playas, riparian	Suitable habitat for this species
Centromadia				woodland. Alkali meadow, alkali	does not occur on site. As
pungens ssp.			G3G4T2, S2,	scrub; also in disturbed places.	such, this species is considered
laevis	smooth tarplant	None, None	1B.1	5-1170 m.	absent from the Project site.
				Coastal scrub, chaparral,	
				grasslands, sagebrush, etc. in	
				western San Diego County.	Suitable habitat for this species
	northwestern			Sandy, herbaceous areas, usually	does not occur on site. As
Chaetodipus fallax	San Diego		G5T3T4, S3S4,	in association with rocks or	such, this species is considered
fallax	pocket mouse	None, None	CDFW-SSC	coarse gravel.	absent from the Project site.
				Marshes and swamps, coastal	Suitable habitat for this species
Chloropyron				dunes. Limited to the higher	does not occur on site. As
maritimum ssp.	salt marsh	Endangered,		zones of salt marsh habitat. 0-10	such, this species is considered
maritimum	bird's-beak	Endangered	G4?T1, S1, 1B.2	m.	absent from the Project site.
				Coastal scrub, chaparral,	
				cismontane woodland, valley	
				and foothill grassland. Dry slopes	
				and flats; sometimes at interface	Suitable habitat for this species
				of 2 vegetation types, such as	does not occur on site. As
Chorizanthe parryi	Parry's			chaparral and oak woodland.	such, this species is considered
var. parryi	spineflower	None, None	G3T2, S2, 1B.1	Dry, sandy soils. 90-1220 m.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	<u>Potential to Occur</u>
				Riparian forest nester, along the	
				broad, lower flood-bottoms of	
				larger river systems. Nests in	
				riparian jungles of willow, often	Suitable habitat for this species
Coccyzus				mixed with cottonwoods, with	does not occur on site. As
americanus	western yellow-	Threatened,		lower story of blackberry,	such, this species is considered
occidentalis	billed cuckoo	Endangered	G5T2T3, S1	nettles, or wild grape.	absent from the Project site.
				Chaparral, woodland, grassland,	
				and desert areas from coastal	
				San Diego County to the eastern	
				slopes of the mountains. Occurs	
				in rocky areas and dense	Suitable habitat for this species
				vegetation. Needs rodent	does not occur on site. As
	red-diamond		G4, S3, CDFW-	burrows, cracks in rocks or	such, this species is considered
Crotalus ruber	rattlesnake	None, None	SSC	surface cover objects.	absent from the Project site.
					Suitable habitat for this species
Cuscuta				Marshes and swamps	does not occur on site. As
obtusiflora var.				(freshwater). Freshwater marsh.	such, this species is considered
glandulosa	Peruvian dodder	None, None	G5T4?, SH, 2B.2	15-280 m.	absent from the Project site.
				Alluvial scrub vegetation on	
				sandy loam substrates	Suitable habitat for this species
		Endangered,		characteristic of alluvial fans and	does not occur on site. As
Dipodomys	San Bernardino	Candidate	G5T1, S1,	flood plains. Needs early to	such, this species is considered
merriami parvus	kangaroo rat	Endangered	CDFW-SSC	intermediate seral stages.	absent from the Project site.
				Primarily annual and perennial	
				grasslands, but also occurs in	
				coastal scrub and sagebrush	
				with sparse canopy cover.	Suitable habitat for this species
				Prefers buckwheat, chamise,	does not occur on site. As
Dipodomys	Stephens'	Threatened,		brome grass and filaree. Will	such, this species is considered
stephensi	kangaroo rat	Threatened	G2, S2	burrow into firm soil.	absent from the Project site.

		Federal /			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Chaparral, cismontane	
				woodland, coastal scrub (alluvial	
				fan sage scrub). Flood deposited	
				terraces and washes; associates	Suitable habitat for this species
				include Encelia, Dalea,	does not occur on site. As
Dodecahema	slender-horned	Endangered,		Lepidospartum, etc. Sandy soils.	such, this species is considered
leptoceras	spineflower	Endangered	G1, S1, 1B.1	200-765 m.	absent from the Project site.
					Suitable habitat for this species
					does not occur on site. As
Empidonax traillii	southwestern	Endangered,		Riparian woodlands in Southern	such, this species is considered
extimus	willow flycatcher	Endangered	G5T2, S1	California.	absent from the Project site.
				Coastal regions, chiefly from	
				Sonoma County to San Diego	
				County. Also main part of San	
				Joaquin Valley and east to	
				foothills. Short-grass prairie,	Suitable habitat for this species
				"bald" hills, mountain meadows,	does not occur on site. As
Eremophila	California		G5T4Q, S4,	open coastal plains, fallow grain	such, this species is considered
alpestris actia	horned lark	None, None	CDFW-WL	fields, alkali flats.	absent from the Project site.
				Coastal scrub, chaparral. In	Suitable habitat for this species
Eriastrum				sandy soils on river floodplains	does not occur on site. As
densifolium ssp.	Santa Ana River	Endangered,		or terraced fluvial deposits. 180-	such, this species is considered
sanctorum	woollystar	Endangered	G4T1, S1, 1B.1	705 m.	absent from the Project site.
					Suitable habitat for this species
					does not occur on site. As
Eugnosta					such, this species is considered
busckana	Busck's gallmoth	None, None	G1G3, SH	Coastal dunes Coastal scrub	absent from the Project site.

		Federal /			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Many open, semi-arid to arid	
				habitats, including conifer and	
				deciduous woodlands, coastal	Suitable habitat for this species
				scrub, grasslands, chaparral, etc.	does not occur on site. As
Eumops perotis	western mastiff		G4G5T4, S3S4,	Roosts in crevices in cliff faces,	such, this species is considered
californicus	bat	None, None	CDFW-SSC	high buildings, trees and tunnels.	absent from the Project site.
				Summer resident; inhabits	
				riparian thickets of willow and	
				other brushy tangles near	
				watercourses. Nests in low,	
				dense riparian, consisting of	Suitable habitat for this species
				willow, blackberry, wild grape;	does not occur on site. As
	yellow-breasted		G5, S3, CDFW-	forages and nests within 10 ft of	such, this species is considered
Icteria virens	chat	None, None	SSC	ground.	absent from the Project site.
				Coastal scrub, chaparral, riparian	
				scrub, mojavean desert scrub,	Suitable habitat for this species
				meadows and seeps (alkali),	does not occur on site. As
Imperata	California			riparian scrub. Mesic sites, alkali	such, this species is considered
brevifolia	satintail	None, None	G3, S3, 2B.1	seeps, riparian areas. 3-1495 m.	absent from the Project site.
				Broken woodlands, savannah,	
				pinyon-juniper, Joshua tree, and	
				riparian woodlands, desert	
				oases, scrub and washes. Prefers	
				open country for hunting, with	Suitable habitat for this species
				perches for scanning, and fairly	does not occur on site. As
Lanius	loggerhead		G4, S4, CDFW-	dense shrubs and brush for	such, this species is considered
ludovicianus	shrike	None, None	SSC	nesting.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	<u>Potential to Occur</u>
				Found in valley foothill riparian,	
				desert riparian, desert wash, and	
				palm oasis habitats. Roosts in	Suitable habitat for this species
				trees, particularly palms.	does not occur on site. As
	western yellow		G4G5, S3,	Forages over water and among	such, this species is considered
Lasiurus xanthinus	bat	None, None	CDFW-SSC	trees.	absent from the Project site.
					Suitable habitat for this species
Lepidium					does not occur on site. As
virginicum var.	Robinson's			Chaparral, coastal scrub. Dry	such, this species is considered
robinsonii	pepper-grass	None, None	G5T3, S3, 4.3	soils, shrubland. 4-1435 m.	absent from the Project site.
					Suitable habitat for this species
					does not occur on site. As
Malacothamnus	Parish's bush-			Chaparral, coastal sage scrub. In	such, this species is considered
parishii	mallow	None, None	GXQ, SX, 1A	a wash. 305-455 m.	absent from the Project site.
				Known only from localities in	Suitable habitat for this species
				Southern California.	does not occur on site. As
	white cuckoo			Cleptoparasitic in the nests of	such, this species is considered
Neolarra alba	bee	None, None	GH, SH	perdita bees.	absent from the Project site.
				Coastal scrub of Southern	
				California from San Diego	
				County to San Luis Obispo	
				County. Moderate to dense	Suitable habitat for this species
				canopies preferred. They are	does not occur on site. As
Neotoma lepida	San Diego desert		G5T3T4, S3S4,	particularly abundant in rock	such, this species is considered
intermedia	woodrat	None, None	CDFW-SSC	outcrops, rocky cliffs, and slopes.	absent from the Project site.
				Variety of arid areas in Southern	
				California; pine-juniper	
				woodlands, desert scrub, palm	Suitable habitat for this species
				oasis, desert wash, desert	does not occur on site. As
Nyctinomops	pocketed free-		G5, S3, CDFW-	riparian, etc. Rocky areas with	such, this species is considered
femorosaccus	tailed bat	None, None	SSC	high cliffs.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Federal listing refers to	
				populations from Santa Maria	
				River south to southern extent	
				of range (San Mateo Creek in	
				San Diego County). Southern	
				steelhead likely have greater	Suitable habitat for this species
Oncorhynchus	steelhead -	Endangered,		physiological tolerances to	does not occur on site. As
mykiss irideus	southern	Candidate		warmer water and more variable	such, this species is considered
pop. 10	California DPS	Endangered	G5T1Q, S1	conditions.	absent from the Project site.
				Lower elevation grasslands and	
				coastal sage communities in and	
				around the Los Angeles Basin.	
				Open ground with fine, sandy	Suitable habitat for this species
Perognathus				soils. May not dig extensive	does not occur on site. As
longimembris	Los Angeles		G5T2, S1S2,	burrows, hiding under weeds	such, this species is considered
brevinasus	pocket mouse	None, None	CDFW-SSC	and dead leaves instead.	absent from the Project site.
				Frequents a wide variety of	
				habitats, most common in	
				lowlands along sandy washes	
				with scattered low bushes. Open	
				areas for sunning, bushes for	Suitable habitat for this species
				cover, patches of loose soil for	does not occur on site. As
Phrynosoma	coast horned		G3G4, S3S4,	burial, and abundant supply of	such, this species is considered
blainvillii	lizard	None, None	CDFW-SSC	ants and other insects.	absent from the Project site.
				Obligate, permanent resident of	
				coastal sage scrub below 2500 ft	
				in Southern California. Low,	
				coastal sage scrub in arid	Suitable habitat for this species
Polioptila	coastal			washes, on mesas and slopes.	does not occur on site. As
californica	California	Threatened,	G4G5T3Q, S2,	Not all areas classified as coastal	such, this species is considered
californica	gnatcatcher	None	CDFW-SSC	sage scrub are occupied.	absent from the Project site.

		Federal /			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Disjunct populations known	
				from southern Sierras (northern	
				DPS) and San Gabriel, San	
				Bernardino, and San Jacinto	
				Mtns (southern DPS). Found at	
				1,000 to 12,000 ft in lakes and	
				creeks that stem from springs	
				and snowmelt. May overwinter	
				under frozen lakes. Often	
	southern			encountered within a few feet of	Suitable habitat for this species
	mountain			water. Tadpoles may require 2 -	does not occur on site. As
	yellow-legged	Endangered,	G1, S1, CDFW-	4 yrs to complete their aquatic	such, this species is considered
Rana muscosa	frog	Endangered	WL	development.	absent from the Project site.
				Headwaters of the Santa Ana	
				and San Gabriel rivers. May be	
				extirpated from the Los Angeles	
				River system. Requires	
				permanent flowing streams with	Suitable habitat for this species
				summer water temps of 17-20 C.	does not occur on site. As
Rhinichthys	Santa Ana		G5T1, S1,	Usually inhabits shallow cobble	such, this species is considered
osculus ssp. 8	speckled dace	None, None	CDFW-SSC	and gravel riffles.	absent from the Project site.
					Suitable habitat for this species
					does not occur on site. As
Ribes divaricatum	Parish's			Riparian woodland. Salix swales	such, this species is considered
var. parishii	gooseberry	None, None	G5TX, SX, 1A	in riparian habitats. 65-300 m.	absent from the Project site.
Riversidian	Riversidian				
Alluvial Fan Sage	Alluvial Fan Sage				This habitat is absent from the
Scrub	Scrub	None, None	G1, S1.1	Coastal scrub	Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Riparian plant associations in	
				close proximity to water. Also	
				nests in montane shrubbery in	
				open conifer forests in Cascades	
				and Sierra Nevada. Frequently	
				found nesting and foraging in	
				willow shrubs and thickets, and	Suitable habitat for this species
				in other riparian plants including	does not occur on site. As
Setophaga			G5, S3S4,	cottonwoods, sycamores, ash,	such, this species is considered
petechia	yellow warbler	None, None	CDFW-SSC	and alders.	absent from the Project site.
Southern Coast	Southern Coast				
Live Oak Riparian	Live Oak				This habitat is absent from the
Forest	Riparian Forest	None, None	G4, S4	Riparian forest	Project site.
Southern	Southern				
Sycamore Alder	Sycamore Alder				
Riparian	Riparian				This habitat is absent from the
Woodland	Woodland	None, None	G4, S4	Riparian woodland	Project site.
				Occurs primarily in grassland	
				habitats, but can be found in	
				valley-foothill hardwood	Suitable habitat for this species
				woodlands. Vernal pools are	does not occur on site. As
	western		G2G3, S3,	essential for breeding and egg-	such, this species is considered
Spea hammondii	spadefoot	None, None	CDFW-SSC	laying.	absent from the Project site.
				Most abundant in drier open	
				stages of most shrub, forest, and	
				herbaceous habitats, with friable	
				soils. Needs sufficient food,	
				friable soils and open,	Suitable habitat for this species
				uncultivated ground. Preys on	does not occur on site. As
			G5, S3, CDFW-	burrowing rodents. Digs	such, this species is considered
Taxidea taxus	American badger	None, None	SSC	burrows.	absent from the Project site.

		<u>Federal /</u>			
Scientific Name	Common Name	State Status	Other Status	<u>Habitat</u>	Potential to Occur
				Coastal California from vicinity	
				of Salinas to northwest Baja	
				California. From sea to about	
				7,000 ft elevation. Highly	
				aquatic, found in or near	Suitable habitat for this species
				permanent fresh water. Often	does not occur on site. As
Thamnophis	two-striped		G4, S3S4,	along streams with rocky beds	such, this species is considered
hammondii	gartersnake	None, None	CDFW-SSC	and riparian growth.	absent from the Project site.
				Summer resident of Southern	
				California in low riparian in	
				vicinity of water or in dry river	
				bottoms; below 2000 ft. Nests	
				placed along margins of bushes	Suitable habitat for this species
				or on twigs projecting into	does not occur on site. As
Vireo bellii		Endangered,		pathways, usually willow,	such, this species is considered
pusillus	least Bell's vireo	Endangered	G5T2, S2	Baccharis, mesquite.	absent from the Project site.

Coding and Terms

- E = Endangered T = Threatened C = Candidate FP = Fully Protected WL = Watch List SSC = Species of Special Concern R = Rare
- State Species of Special Concern: An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code: "It is unlawful to take, possess or destroy any birds in the orders Falconiformes or Strigiformes or to take, possess or destroy the nest or eggs of any such bird."
- State Fully Protected: The classification of Fully Protected was the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians and reptiles. Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

Global Rankings (Species or Natural Community Level):

- G1 = Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4 = Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure Common; widespread and abundant.
- ? = Uncertainty in the exact status of an element (could move up or down one direction from current rank)

Subspecies Level: Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

State Ranking:

- S1 = Critically Imperiled Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
- S2 = Imperiled Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
- S3 = Vulnerable Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
- S4 = Apparently Secure Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors.
- S5 = Secure Common, widespread, and abundant in the State.

California Rare Plant Rankings (CNPS List):

- 1A = Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B = Plants rare, threatened, or endangered in California and elsewhere.
- 2A = Plants presumed extirpated in California, but common elsewhere.
- 2B = Plants rare, threatened, or endangered in California, but more common elsewhere.
- 3 = Plants about which more information is needed; a review list.
- 4 = Plants of limited distribution: a watch list.

Threat Ranks:

- .1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- .3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)